



Product Colours & Span Tables

VERSION 2021

Refer to Design, Detailing & Installation Guide for full product information



AS 5637.1 GROUP 1 AS 3959 BAL-40



THERMAL RATING UP TO R6.5



COASTAL &
SEVERE MARINE



CYCLONE RATED UP TO C4



LARGE SPANS & CANTILEVERS

Custom Panel

STRAIGHT, CURVED & MULTI-CURVED CONFIGURATIONS

Updated: 01/11/2022





Introduction & General Notes



OVERVIEW

Custom Panel

FULLY INTEGRATED ROOF SYSTEM

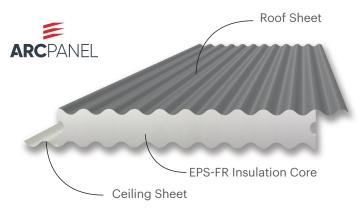
ARCPANEL Custom roof panel combines aesthetic, innovative design, with high strength, durability and excellent thermal insulation. ARCPANEL panels can also be curved to produce an outstanding architectural feature and provide increased interior space. The ARCPANEL Custom roof panel can achieve significant cantilevers, in some applications up to half the actual back span and this unique system eliminates the need for complex, expensive roof structures. The lightweight ARCPANEL panels are easily handled on site, achieving faster, lower cost installation.

UNIQUE DESIGN & CONSTRUCTION

ARCPANEL pre-fabrication starts with standard Corrugated COLORBOND® steel sheeting, bonded to both sides of profiled EPS. The panel yields high strength resulting in large spans and cantilevers along with a high insulation value. Standard ratings from R1.7 to R6.5 can easily be achieved. The strength of this construction means that the ARCPANEL Custom roof panel is suitable for use in cyclonic conditions. After the panels are fixed in place, there is virtually no maintenance required other than the occasional wash down of soffits.

On site time spent fitting trusses, eave linings, plasterboard, battens, insulation lining, roof sheeting and painting, is eliminated when using ARCPANEL Custom roof panel.

Straight, Bull nose, Curved & Multi-curved panels can be manufactured using COLORBOND® steel, COLORBOND® steel Matt, COLORBOND® Ultra steel, COLORBOND® Metallic steel, SUPERDURA™ Stainless steel, ZINCALUME® steel and Xtreme (Magnaflow®). Available in a range of classic and contemporary COLORBOND® steel colours.



KEY FEATURES AND BENEFITS



- ✓ Achieve up to 12.5m unsupported spans reduce expensive support structures e.g. roof trusses & support beams
- ✓ Corrugated profile is used on both sides, reducing the need for ceilings and internal painting
- ✓ Pre-finished extensive range of COLORBOND® steel colours
- ✓ Straight, curved or multi-curved configurations, suitable for most architectural designs
- ✓ Dependant on the design, cantilevers of up to half the actual backspan can be achieved
- ✓ Suitable for use in cyclonic wind conditions
- ✓ ARCPANEL Custom roof panel is available in COLORBOND® steel, COLORBOND® steel Matt, COLORBOND® Ultra steel, COLORBOND® Metallic steel, SUPERDURA™ Stainless steel, ZINCALUME® steel & Xtreme Magnaflow®
- √ Rapid installation makes the ARCPANEL Custom roof panel a clear winner over traditional roof construction
- ✓ Fire rated to Group 1 roof and wall lining material
- ✓ Superior standard thermal ratings up to R6.5 are achieved using the ARCPANEL Custom roof panel
- ✓ Panels meet the requirements for live and concentrated imposed loads for roofs not accessible except for normal maintenance as per AS1170.1:2002
- ✓ Bushfire attack level BAL-12.5 to BAL-40

ROOF TYPES





STRAIGHT PROFILE

Straight panels can be manufactured up to 20 metres in length, suitable for housing, awnings, patios, commercial and industrial projects.





CURVED PROFILE

Curved panels can be manufactured to a minimum radius of 3m.

Curved panels can be manufactured in lengths up to 20 metres, panels can be joined to achieve longer runs.





MULTI CURVED PROFILE

Multi-curved panels can be manufactured to a minimum radius of 3m.

Multi-curved panels can be manufactured in lengths up to 20 metres, panels can be joined to achieve longer runs.





BULLNOSE PROFILE

Panels can be manufactured to suit a Bull nose radii 750mm to 1200mm.

Bull nose panels can be manufactured in lengths up to 12 metres.



OVERVIEW

ARCPANEL Insulated panel's offer industry leading warranties, it is important that care is taken when selecting the sheeting material. Environmental conditions, coastal & geographic locations and extreme weather conditions should all be considered. Other points such as roof pitch, metal thickness and direction of lay are also important. The sheeting plays an important part in the structural design of ARCPANEL's insulated roof system.

Please feel free to contact us for further information. Technical Bulletins from Bluescope Steel are available from ARCPANEL or visit www. bluescopesteel.com.au.

Sheeting Material Types

COLORBOND® STEEL (Standard Finish)

While standard COLORBOND® steel will suit most residential and commercial designs in most locations it is most suitable for: Non-Coastal, Coastal Locations 1km-5km and Marine location greater than 200mm from salt or brackish environments.

ZINCALUME® STEEL

Next generation ZINCALUME® steel's patented Activate® technology introduces magnesium into the aluminium-zinc alloy coating, improving galvanic protection by activating the aluminium. The result is a tougher protective coating that's more resistant to scratches and scuffs encountered during construction. Suitable for: Non-Coastal, Coastal Locations 1km-5km and Marine location greater than 200mm from salt or brackish environments.

COLORBOND® ULTRA STEEL

CCOLORBOND® Ultra steel is especially designed for severe coastal and industrial environments - where there is exposure to salt or brackish water in the air and approximately 100 to 200 metres from breaking surf. Similarly, the effects of industrial emissions (fumes and/or particulate fallout) are typically lessened 100 to 200 metres from the source. Suitable for: Severe Marine Locations to Coastal Location and Aquatic/Swimming Pool environments.

SUPERDURA™ STAINLESS STEEL

SUPERDURA™ Stainless steel is the recommended roofing material for coastal areas where there is a constant salt spray in the air - within 100 metres from breaking surf - or within proximity to industrial emissions. Suitable for: Non Coastal, Coastal to Severe Marine Locations and Aquatic/Swimming Pool environments.

ARCPANEL XTREME (MAGNAFLOW)

The superior corrosion resistance of ARCPANEL's Xtreme roofing material is achieved using Magnaflow, means it is an ideal choice for more demanding environments, such as roofs 100m from the coastline. The magnesium in the aluminium/zinc/magnesium alloy coating 'magically' helps zinc flow over cut edges, sealing them and providing long term protection against corrosion. Suitable for: Severe Marine Locations to Coastal Location and Aquatic/ Swimming Pool environments.

AQUATEK APPLICATIONS

For enclosed aquatic applications, ARCPANEL recommends the use of ARCPANEL Aquatek Panel with large spanning capabilities and a range of panel thicknesses to suit your project, the ARCPANEL Aquatek Roof systems is the ultimate roof solution.

Please refer to ARCPANEL's Aquatek Guide for further information.

COLORBOND® steel is a registered trademark of Bluescope Steel. Magnaflow is a registered trademark of Fletcher Steel Ltd.

Colerbond

COLOUR RANGE - CLASSIC



COLOUR RANGE - MATT FINISH

Surfmist® SA = 0.35 BCA = L	Dune® SA = 0.48 BCA = M	Shale Grey™ SA = 0.45 BCA = M	Bluegum® SA = 0.57 BCA = M
Basalt®	Monument®		

COLORBOND® ULTRA STEEL

Surfmist®	Shale Grey™	Windspray®	Dune®
SA = 0.32 BCA = L	SA = 0.45 BCA = M	SA = 0.58 BCA = M	SA = 0.47 BCA = M
Wallaby®	Woodland Grey®	Monument®	
SA = 0.64 BCA = D	SA = 0.71 BCA = D	SA = 0.73 BCA = D	

SUPERDURA™ STAINLESS STEEL

SURFMIST® Surfmist® Stainless

COOLMAX® STEEL

WHITFHAVEN® Whitehaven®

COLORBOND® STEEL METALLIC FINISH (subject to availability)



COLOUR RANGE ARCPANEL XTREME (MAGNAFLOW®)



*Lead times are subject to supplier availability.

Colour swatches are provided as an indication of colour only and may not be an actual representation of colour. We recommend checking your chosen colour against an actual sample of the product before

Corrosion resistant options available for coastal applications

please contact us for more details.





ARCPANEL Custom Panel - Material Selection & Warranty

OVERVIEW

ARCPANEL PRODUINDICATIVE & MAXIMUM					SAMPLE ONLY)	
Environment	(ISO Cat.1)	(ISO Cat.2)	(ISO Cat.3)	(ISO Cat.4)	(ISO Cat.5)	(Highly Corrosive)
Panel Material	Non-Coastal	Coastal	Marine (calm)	Severe Marine (calm)	Very Severe Marine (surf) 50m to 500m	Enclosed Aquatic Centre
Pariei Materiai	5km+	1km to 5km	Industrial 500m to 1km	Industrial 100 to 500m	Corrosive Industrial 0m to 100m	Swimming Pools
COLORBOND® STEEL / ZINCALUME®	20 years	15 years	10 years	By Enquiry	No Warranty	No Warranty
COLORBOND® ULTRA STEEL	20 years	20 years	15 years	10 years	By Enquiry	By Enquiry
COLORCOTE MAGNAFLOW®	20 years	20 years	20 years	15 years	By Enquiry	By Enquiry
SUPERDURA™ STAINLESS STEEL	20 years	20 years	20 years	20 years	20 years	20 years
COOLMAX® STEEL	20 years	20 years	20 years	20 years	20 years	20 years

BLUESC	OPE STEEL	COLORBOND®	STEEL MATERIA	AL AND COL	OUR SELEC	TION CHART			TABLE 1
0-1	ATTER A	Ola calfination	Solar	Availa	ability	Recommend	ded for use to	Curving	NSW Basix
Colour	BLUSSCOPE STEEL	Classification	Absorbance	Standard	Ultra	Roof Side	Ceiling Side	Grade	Sustainability Index
	OND® steel								
Basalt®		Dark	0.69	✓		NO**	✓		M
Bluegum®	9	Medium	0.57	✓		✓	✓	✓	M
Classic C	ream™	Light	0.31	✓		✓	✓	✓	L
Cottage C	Green	Dark	0.75	✓		NO**	✓	✓	D
Deep Oce	ean®	Dark	0.75	✓		NO**	✓	✓	D
Dover Wh	nite™	Light	0.28	✓		✓	✓	✓	L
Dune®		Medium	0.47	✓	✓	✓	✓	✓	L
Evening H	Haze®	Medium	0.43	✓		✓	✓	\checkmark	L
Gully®		Dark	0.63	✓		✓	✓		M
Ironstone	®	Dark	0.74	✓		NO**	✓	✓	D
Jasper®		Dark	0.68	✓		✓	✓	✓	M
Manor Re	ed®	Dark	0.69	✓		NO**	✓	✓	М
Monumer	nt®	Dark	0.73	✓	✓	NO**	✓	✓	D
Night Sky	®	Dark	0.96	✓		NO**	✓		D
Pale Euca	alypt®	Medium	0.60	✓		✓	✓	✓	М
Paperbar	k®	Medium	0.42	✓		✓	✓	✓	L
Shale Gre	ey®	Medium	0.43	✓	✓	✓	✓	✓	L
Southerly	®	Light	0.40	✓		✓	✓	✓	L
Surfmist®		Light	0.32	✓	✓	✓	✓	✓	L
Wallaby®		Dark	0.64	✓	✓	✓	✓		M
Whitehav	en®	Light	0.23	✓		✓	✓		L
Windspra	y®	Medium	0.58	✓	✓	✓	✓	✓	M
Woodland	d Grey®	Dark	0.71	✓	✓	NO**	✓		D
ZINCALU	ME®*	Light	<0.35			✓		✓	L
STAINLES	SS STEEL								
Surfmist®		Light	0.318			✓	✓		L
COOLMA	X® STEEL								
Whitehav	en®	Light	0.23			✓	✓		L
	EL XTREME (I	MAGNAFLOW®)							
Off White		Light	0.35			✓	✓		L
Birch		Medium	0.45	✓		✓	✓		M
Armour G	irey	Medium	0.59	✓		✓	✓		М
Slate Gre	у	Dark	0.72	✓		NO**	✓		D
Monolith		Dark	0.75	✓		NO**	✓		D

IMPORTANT NOTES: USE OF DARK COLOURS FOR EXTERNAL FINISHES, LIMITED WARRANTY APPLIES, PLEASE CONTACT ARCPANEL FOR FURTHER INFORMATION.

^{**} Galv, ZINCALUME*, COLORBOND* Matt and COLORBOND* dark colours may show minor visible roll forming process marks, this is a characteristic of roll forming process and not a defect.

** Colours with a NCC / BCA 'Dark' classification having a solar absorbance of greater than 0.68 are not recommended to be used as a top roof or outer wall sheeting. Increased surface temperature, expansion, deflection and thermal movement can be expected of an insulated panel when using dark colours exposed to direct sunlight. The building designer is responsible for colour selection, acknowledges and accepts any associated design risks. Arcpanel warranty does not cover structural damage to the building or to the panels caused by extreme or concentrated dry heat loads and surface temperatures in excess of 78 degrees Celsius.



ARCPANEL Custom Panel - **Span Tables & Thermal Ratings**



OVERVIEW

NON CYCLONIC - SINGLE SPAN TABLE 3A Midspan deflection up to span/120 at serviceability limit state; Self weight deflection up to span/600. Maximum unsupported Spans (mm) Strength Limit **Total R Value** Total R Value Wind Class State Design R1.7 R2.0 R2.4 R3.1 R3.5 R4.1 R4.5 R5.2 R6.5 Permissible) Wind Pressu (P) (kPa) 75mm Panel 85mm Panel 100mm Panel 125mm Panel 140mm Panel 160mm Panel 175mm Panel 200mm Panel 250mm Pane Max Cantileve Max Cantileve Cantileve Span Span Span Span Span Span Span Span Span N2-W33 1.52 1.68 1.85 2.01 2.18 N3-W41 2.34 2.57 8.500 2.80 3.03 3.26 N4-W50 3.50 3.80 4.11 4.41 4.72 N5-W60 5.03

PLEASE NOTE: Maximum cantilever is 50% of backspan (span closest to cantilever) in N1 to N3 wind classes, 40% maximum cantilever for N4 & N5 wind classes.

Wind Class Permissible)		ate Design R1.7		R	R2.0		Total R Value R2.4		R3.1 125mm Panel		R Value 3.5	R4	R Value	R	R Value 4.5	R	R Value	R	R Value 6.5
	(P) (kPa)	Max Span	Max Cantilever	Max Span	n Panel Max Cantilever	Max Span	m Panel Max Cantilever	Max Span	Max Cantilever	Max Span	m Panel Max Cantilever	Max	m Panel Max Cantilever	Max Span	m Panel Max Cantilever	Max Span	n Panel Max Cantilever	Max	m Panel Max Cantilev
N2-W33	1.52	5390	1885	5940	2075	6820	2385	8250	2885	8910	3115	9350	3270	9975	3490	11025	3855	12500	4375
	1.68	5190	1815	5725	2000	6575	2300	7940	2775	8600	3005	9020	3155	9660	3380	10665	3730	12080	4225
	1.85	4990	1745	5510	1925	6335	2215	7630	2665	8290	2895	8690	3040	9345	3270	10310	3605	11660	4080
	2.01	4795	1675	5295	1850	6090	2130	7325	2560	7985	2790	8360	2925	9030	3160	9950	3480	11240	3930
	2.18	4595	1605	5080	1775	5850	2045	7015	2450	7675	2680	8030	2810	8715	3050	9595	3355	10820	3785
N3-W41	2.34	4400	1540	4865	1700	5610	1960	6710	2345	7370	2575	7700	2695	8400	2940	9240	3230	10400	3640
	2.57	4220	1440	4685	1595	5400	1840	6465	2205	7105	2420	7435	2535	8105	2765	8925	3040	10060	3390
	2.80	4045	1345	4510	1495	5190	1720	6225	2065	6840	2270	7170	2380	7810	2590	8610	2855	9720	3140
	3.03	3870	1245	4335	1395	4980	1600	5980	1925	6575	2115	6905	2220	7515	2420	8295	2665	9380	2895
	3.26	3695	1150	4160	1295	4770	1480	5740	1785	6310	1965	6640	2065	7220	2245	7980	2480	9040	2645
N4-W50	3.50	3520	1055	3985	1195	4565	1365	5500	1650	6050	1815	6380	1910	6930	2075	7665	2295	8700	2400
	3.80	3340	975	3790	1105	4375	1270	5300	1545	5830	1695	6160	1790	6675	1940	7390	2150	8220	2300
	4.11	3165	895	3600	1015	4190	1180	5100	1440	5610	1580	5940	1670	6425	1810	7115	2005	7740	2200
	4.41	2990	815	3405	930	4000	1085	4905	1335	5390	1465	5720	1555	6170	1675	6845	1860	7260	2100
	4.72	2815	735	3215	840	3815	995	4705	1230	5170	1350	5500	1435	5920	1545	6570	1715	6780	2000
N5-W60	5.03	2640	660	3025	755	3630	905	4510	1125	4950	1235	5280	1320	5670	1415	6300	1575	6300	1900

SPAN SELECTION NOTES (NON CYCLONIC AREAS)

- 1. Tables 3A, 3B and 3C apply to typical enclosed buildings built on the ground, less than 20m high with sealed doors and windows capable of resisting the applied wind pressures
- 2. Roof pressure coefficients: Cpe = 1.5 X -0.9 = -1.35, Cpi = +0.2 [Cpi = +0.7 at cantilever]
- The building designer must take into account any application where the Cpi would exceed > 0.2 in open or partly open structures
- 4. Maximum cantilever for N1-W28, N2-W33 & N3-W41 is up to 50% actual backspan no greater than max length shown
- 5. Maximum cantilever for N4-W50 & N5-W60 is up to 40% actual backspan no greater than max length shown (Maximum cantilever lengths cannot be exceeded. Choose a thicker panel to achieve the required cantilever) (Minimum width of cantilevered roof is 1.5 x cantilever)
- 6. Wind Load Serviceability Criteria based on AS 4055, Vs=0.64 x Vu
- 7. Oversized gutters may affect the cantilever capability, please contact ARCPANEL
- 8. Limited racking, diaphragm action and lateral restraint capacity, refer to page 16
- 9. 300mm maximum side cantilever using full uncut panel
- 10. Thermal R-Values are Total R-Values (Winter Tested conductivity 0.038W/m.K at 23°C)
- 11. In locations where the roof panels are not fixed to the parallel raked external walls (due to glazing and the like), the engineer shall select the panels using the max wind pressure calculated with upwind local pressure coefficients in accordance with AS1170.2





Wind Class Permissible)	Strength Limit State Design Wind Pressure (P) (kPa)	Total R Value R1.7 75mm Panel		Total R Value R2.0 85mm Panel		Total R Value R2.4 100mm Panel		Total R Value R3.1 125mm Panel		Total R Value R3.5 140mm Panel		Total R Value R4.1 160mm Panel		Total R Value R4.5 175mm Panel		Total R Value R5.2 200mm Panel		Total R Value R6.5 250mm Panel	
		Max Span	Max Cantilever	Max Span	Max Cantilever	Max Span	Max Cantilever	Max Span	Max Cantilever	Max Span	Max Cantilever	Max Span	Max Cantilever	Max Span	Max Cantilever	Max Span	Max Cantilever	Max Span	Max Cantileve
C1-W41	3.11	3100	930	3600	1080	4000	1200	4600	1380	5200	1560	5300	1590	5900	1770	6400	1920	8500	2500
	3.41	2930	875	3400	1020	3830	1145	4440	1330	5000	1500	5100	1530	5680	1700	6180	1850	8180	2400
	3.71	2760	825	3200	960	3660	1095	4280	1280	4800	1440	4900	1470	5460	1635	5960	1785	7860	2300
	4.01	2590	775	3000	900	3490	1045	4120	1235	4600	1380	4700	1410	5240	1570	5740	1720	7540	2200
	4.32	2420	725	2800	840	3320	995	3960	1185	4400	1320	4500	1350	5020	1505	5520	1655	7220	2100
C2-W50	4.62	2250	675	2600	780	3150	945	3800	1140	4200	1260	4300	1290	4800	1440	5300	1590	6900	2000
	5.03	2140	625	2470	720	2980	870	3640	1060	4010	1170	4120	1200	4590	1335	5080	1480	6480	1840
	5.43	2030	575	2340	660	2810	795	3480	980	3820	1080	3940	1110	4380	1235	4860	1370	6060	1680
	5.84	1920	525	2210	600	2640	720	3320	905	3630	990	3760	1025	4170	1135	4640	1265	5640	1520
	6.24	1810	475	2080	545	2470	645	3160	825	3440	900	3580	935	3960	1035	4420	1155	5220	1360
C3-W60	6.65	1700	425	1950	485	2300	575	3000	750	3250	810	3400	850	3750	935	4200	1050	4800	1200
	7.13	1640	410	1870	465	2200	550	2840	710	3080	770	3220	805	3600	900	4040	1010	4540	1130
	7.61	1580	395	1790	445	2100	525	2680	670	2910	725	3040	760	3450	860	3880	970	4280	1060
	8.09	1520	380	1710	425	2000	500	2520	630	2740	685	2860	715	3300	825	3720	930	4020	990
	8.57	1460	365	1630	405	1900	475	2360	590	2570	640	2680	670	3150	785	3560	890	3760	920
C4-W70	9.05	1400	350	1550	385	1800	450	2200	550	2400	600	2500	625	3000	750	3400	850	3500	850

SPAN SELECTION NOTES (CYCLONIC AREAS)

- Table 3C applies to typical enclosed buildings built on the ground, less than 20m high with sealed doors and windows
 capable of resisting the applied wind pressures
- 2. Roof pressure coefficients: Cpe = $1.5 \times -0.9 = -1.35$, Cpi = +0.7
- 3. Maximum cantilever for all cyclonic areas is up to 30% actual backspan (Maximum cantilever lengths cannot be exceeded. Choose a thicker panel to achieve the required cantilever) (Minimum width of cantilevered roof is 1.5 x cantilever)
- 4. Wind Load Serviceability Criteria based on AS 4055, Vs=0.64 x Vu
- 5. Oversized gutters may affect the cantilever capability, please contact ARCPANEL for advice
- 6. Limited racking, diaphragm action and lateral restraint capacity, refer to page 16
- 7. 300mm maximum side cantilever using full uncut panel
- 8. Thermal R-Values are Total R-Values (Winter Tested conductivity 0.038W/m.K at 23°C)
- In locations where the roof panels are not fixed to the parallel raked external walls (due to glazing and the like), the
 engineer shall select the panels using the max wind pressure calculated with upwind local pressure coefficients in
 accordance with AS1170.2

REFER TO PAGE 18 FOR MAXIMUM DEAD LOADS.

GENERAL SPAN SELECTION NOTES

Live Loads:

Maximum distributed live load 0.25kPa.

Roofs in Alpine Areas:

Designer must refer to ARCPANEL for engineering advice regarding snow loadings.

Deflection Limits:

The ARCPANEL span tables have been provided with specific deflection limits indicated for serviceability wind speeds. The building designer must take all necessary care to select an appropriate panel thickness for their specific situation, taking into account the amount of potential roof panel movement relative to any attached non-structural elements, such as internal wall partitions and window frames etc. The building designer must also make allowance for deflections which can exceed those in the tables when the wind speeds are occasionally above the designated serviceability wind speed during extreme weather conditions.

Cantilever Deflections:

Note that cantilever deflections will depend on the backspan, rigidity of supports, building geometry and building permeability. Cantilever deflection can be up to (cantilever length) / 50 at serviceability wind speeds. The building designer must take all necessary care to select an appropriate panel thickness for their specific situation taking into account the amount of potential roof panel movement at the ends of and along the sides of cantilevered sections of the roof, relative to any adjacent attached flashings, downpipes, screen partitions and walls. The builder designer must also make allowance for cantilever deflections which can exceed (cantilever length) / 50 when wind speeds occasionally exceed serviceability wind speeds during extreme weather conditions. Cantilever deflections due to self weight can be up to (cantilever length) / 400.

NOTE: ABOVE SPAN TABLES ARE APPLICABLE TO ARCPANEL CUSTOM PANEL ONLY AND ARE ACHIEVABLE BY USING PROVEN MANUFACTURING METHODS AND PRODUCT TESTING. STRUCTURAL ADEQUACY OF THE PANEL IS CERTIFIED BY ARCPANEL CONSULTING ENGINEERS.





ARCPANEL CUSTOM PANEL SPAN TABLE - ATTACHED CANOPY (NON CYCLONIC)

TABLE 3D

SPAN TABLES FOR CANOPIES, AWNINGS & CARPORTS ATTACHED TO BUILDINGS

				ATTACHED			FREE STA	ANDING	ALL
WIND CLASS	PANEL THICKNESS	3 Sides Open Case A	2 Sides Open Case B	1 Side Open Case C	Enclosed Case D	Attached Fly-over Roof	Free Roof Blockage <75%	Free Roof Blockage >75%	
×	Ŧ	Max Span	Max Span	Max Span	Max Span	Max Span	Max Span	Max Span	Max Cantilever
	75	5145	5145	5145	5145	5145	5250	5145	1800
	85	5700	5700	5550	5550	5700	5825	5700	1940
	100	6510	6510	6510	6510	6510	6655	6510	2275
33	125	7875	7875	7875	7875	7875	7960	7875	2750
N2-W33	140	8505	8505	8505	8505	8505	8700	8505	2975
Z	160	8925	8925	8925	8925	8925	9540	8925	3125
	175	9975	9975	9975	9975	9975	10150	9975	3475
	200	11025	11025	11025	11025	11025	11075	11025	3850
	250	12500	12500	12500	12500	12500	12800	12500	4375
	75	5000	4600	4200	4200	4600	5220	4600	1475
	85	5400	4950	4575	4575	4950	5775	4950	1600
	100	6300	5800	5355	5355	5800	6600	5800	1875
4	125	7600	7000	6405	6405	7000	7900	7000	2240
N3-W4	140	8300	7650	7035	7035	7650	8650	7650	2460
E Z	160	9200	8500	7350	7350	8500	9540	8500	2570
	175	9900	9100	8400	8400	9100	10150	9100	2940
	200	10950	10100	9240	9240	10100	11075	10100	3230
	250	12500	12000	10400	10400	12000	12800	12000	3640
	75	4100	3600	3360	3360	3600	4375	3600	1005
	85	4450	4075	3750	3750	4075	4850	4075	1125
	100	5200	4800	4355	4355	4800	5525	4800	1305
20	125	6300	5800	5250	5250	5800	6625	5800	1575
N4-W50	140	6900	6350	5775	5775	6350	7275	6350	1730
X	160	7700	7050	6090	6090	7050	8075	7050	1825
	175	8250	7550	6930	6930	7550	8675	7550	2075
	200	9150	8400	7665	7665	8400	9600	8400	2300
	250	10900	10000	8700	8700	10000	11400	10000	2400
	75	3100	2700	2520	2520	2700	3650	2700	630
	85	3725	3175	2775	2775	3175	4075	3175	695
	100	4400	3800	3465	3465	3800	4650	3800	865
õ	125	5300	4800	4305	4305	4800	5575	4800	1075
5-W60	140	5800	5300	4725	4725	5300	6125	5300	1180
5	160	6400	5900	5040	5040	5900	6825	5900	1260
_	175	6950	6350	5760	5760	6350	7325	6350	1415
	200	7750	7050	6300	6300	7050	8125	7050	1575
	250	9200	7900	6300	6300	7900	9675	7900	1900

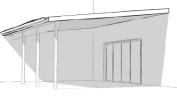
APPLICATION EXAMPLES

Attached canopy span tables apply to panels used for canopies, awnings, patio and building roofs that are attached to another building.

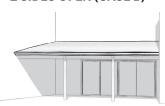
Case A, B, C and D attached canopies must be lower than the building eaves.



3 SIDES OPEN (CASE A)



2 SIDES OPEN (CASE B)



1 SIDE OPEN (CASE C)



FULLY ENCLOSED (CASE D)

SPAN SELECTION NOTES (NON CYCLONIC AREAS)

- 1. Spans selected in accordance with the above maximum limits are certified to be structurally adequate in accordance with AS1170.2-2011.
- 2. Refer to Custom roof panel span notes for cyclonic and non cyclonic spans on page 8 and 9. Refer to Custom roof panel fixing information (pages 12-13).
- 3. Max deflections at midspan are L/70 at permissable design wind pressures. Max deflections at midspan are L/250 for 0.25kPa Live Load.
- 4. Max Dead Load deflections are L/500 (N2-W33).
- 5. The slope of an attached canopy, fly-over roof, or free roof with a monoslope (single skillion) roof must be less than or equal to 10 degrees. The slope of an attached canopy, fly-over roof, or free roof with a pitched (gable, double skillion) roof must be less than or equal to 22.5 degrees.

APPLICATION EXAMPLES

Free roof and attached flyover span tables apply to panels used for canopies, patio and building roofs that are not enclosed by walls underneath.

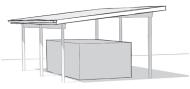
'Roof Blockage >75%' implies that items stored under the roof block more than 75% of the cross section exposed to the wind.



ATTACHED FLY OVER



FREE ROOF BLOCKAGE < 75%



FREE ROOF BLOCKAGE > 75%

ARCPANEL CUSTOM PANEL SPAN TABLE - ATTACHED CANOPY (CYCLONIC)

SPAN TABLES FOR CANOPIES, AWNINGS & CARPORTS ATTACHED TO BUILDINGS

		_	_	ATTACHED	_	_	FREE STA	ANDING	ALL
WIND CLASS	PANEL THICKNESS	3 Sides Open Case A	2 Sides Open Case B	1 Side Open Case C	Enclosed Case D	Attached Fly-over Roof	Free Roof Blockage <75%	Free Roof Blockage >75%	
3	F	Max Span	Max Span	Max Span	Max Span	Max Span	Max Span	Max Span	Max Cantilever
	75	5000	4200	3600	3100	4200	5220	4200	930
	85	5350	4925	4300	3450	4925	5775	4925	1035
	100	6300	5800	5200	4000	5800	6600	5800	1200
14	125	7600	7000	6400	4600	7000	7900	7000	1380
C1-W41	140	8300	7650	7050	5200	7650	8650	7650	1560
2	160	9200	8500	7850	5300	8500	9540	8500	1590
	175	9900	9100	8450	5900	9100	10150	9100	1770
	200	10950	10100	9350	6400	10100	11075	10100	1920
	250	12500	12000	11100	8500	12000	12800	12000	2500
	75	3500	3000	2600	2250	3000	4100	3000	675
	85	4150	3550	3050	2475	3550	4850	3550	745
	100	5000	4200	3600	3150	4200	5525	4200	945
20	125	6300	5600	4800	3800	5600	6625	5600	1140
:2-W50	140	6900	6350	5500	4200	6350	7275	6350	1260
S	160	7700	7050	6400	4300	7050	8075	7050	1290
	175	8250	7550	7000	4800	7550	8675	7550	1440
	200	9150	8400	7800	5300	8400	9600	8400	1590
	250	10900	10000	9250	6900	10000	11400	10000	2000
	75	2600	2200	1950	1700	2200	3000	2200	425
	85	3050	2600	2275	1850	2600	3500	2600	465
	100	3600	3100	2700	2300	3100	4300	3100	575
9	125	4700	4000	3450	3000	4000	5575	4000	750
3-W60	140	5400	4600	3900	3250	4600	6125	4600	810
S	160	6300	5300	4550	3400	5300	6825	5300	850
	175	6950	5850	5000	3750	5850	7325	5850	935
	200	7750	6800	5800	4200	6800	8125	6800	1050
	250	9200	7900	6580	4800	7900	9675	7900	1200
	75	2000	1750	1600	1400	1750	2350	1750	350
	85	2350	2050	1800	1500	2050	2700	2050	375
	100	2800	2400	2100	1800	2400	3275	2400	450
2	125	3600	3050	2650	2200	3050	4200	3050	550
24-W70	140	4100	3450	3000	2400	3450	4825	3450	600
2	160	4700	4000	3400	2500	4000	5600	4000	625
	175	5200	4400	3800	3000	4400	6200	4400	750
	200	6000	5050	4350	3400	5050	7000	5050	850
	250	7250	5790	4830	3500	5790	7250	5790	850

SPAN SELECTION NOTES (CYCLONIC AREAS)

- 1. Spans selected in accordance with the above maximum limits are certified to be structurally adequate in accordance with AS1170.2-2011.
- 2. Refer to Custom roof panel span notes for cyclonic and non cyclonic spans on page 8 and 9. Refer to Custom roof panel fixing information on (pages 12-13).
- 3. Max deflections at midspan are L/70 at permissable design wind pressures. Max deflections at midspan are L/250 for 0.25kPa Live Load.
- 4. Max Dead Load deflections are L/500 (N2-W33).

Architectural Panels Pty Ltd

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TABLE 3E